

Module system for prodn. of one-colour water-based paints - comprises stable colour modules, binder modules and opt. crosslinkers etc. which are prepd. separately and mixed to give the required shade

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Patent Family

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Abstract:

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The prodn. of aq., one-colour coating materials with adjustable shades is by mixing component(s) (A) contg. pigments and/or fillers and polyurethane (PU)-based paste resins with aq. binder component(s) (B). The process comprises (i) preparing separately: (a) stable colour module(s) (A) contg.

colour pigment(s) and/or filler(s), anionically stabilised water-dilutable PU-based paste resin(s) (I), at least 20 wt.% water, and opt. water-dilutable anionically and/or non-ionically stabilised binder(s), organic solvent(s) and/or normal paint additives, (b) stable binder module(s) (B) contg. water-dilutable anionically and/or non-ionically stabilised binder(s), water, opt. solvent(s) and opt. crosslinker(s) and/or additives, and opt. also stable rheology module(s) (C) contg. (in)organic rheology-controlling agents (rheology components), water and opt. binders and/or solvents as above, and/or stable crosslinker module(s) (D) contg. crosslinker(s) and opt. solvent(s), water, binder(s) and/or additives as above, opt. (ii) storing the modules and then (iii) mixing the modules when required in the appropriate amts. to give the required shade.

Used for coating cars and parts of cars, both in prodn. and for repair purposes, and for painting plastics (claimed).

A modular system (kit or mixer system) is provided for the prodn. of water-based one-colour paints, esp. one-component aq. basecoats, which is flexible w.r.t. choice of binder and gives one-colour basecoats which are stable for a long time and contain only small amts. of solvent.

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